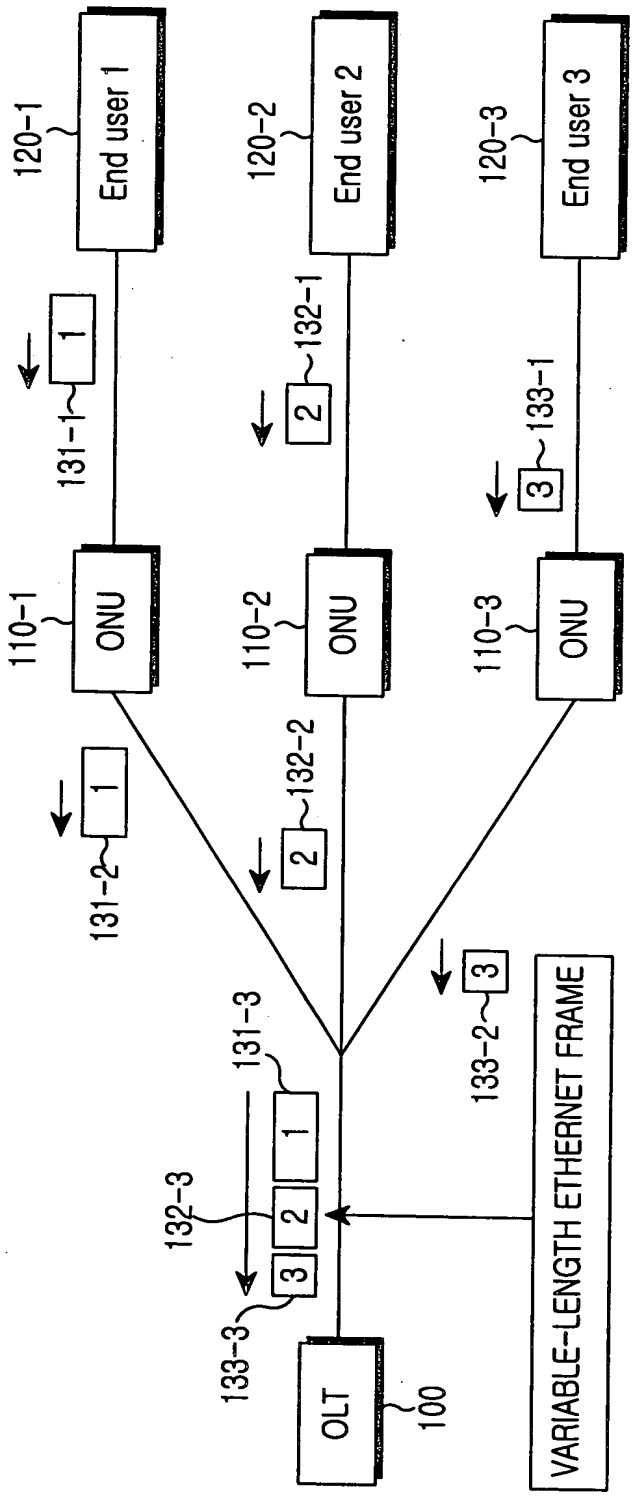
120-1
End user 1
120-2
End user 2
120-3
End user 3
131-1
1
132-1
2
133-1
3
110-1
ONU
110-2
ONU
110-3
ONU
131-2
1
132-2
2
133-2
3
131-3
1
132-3
2
3
133-3
OLT
100
VARIABLE-LENGTH ETHERNET FRAME

FIG.1

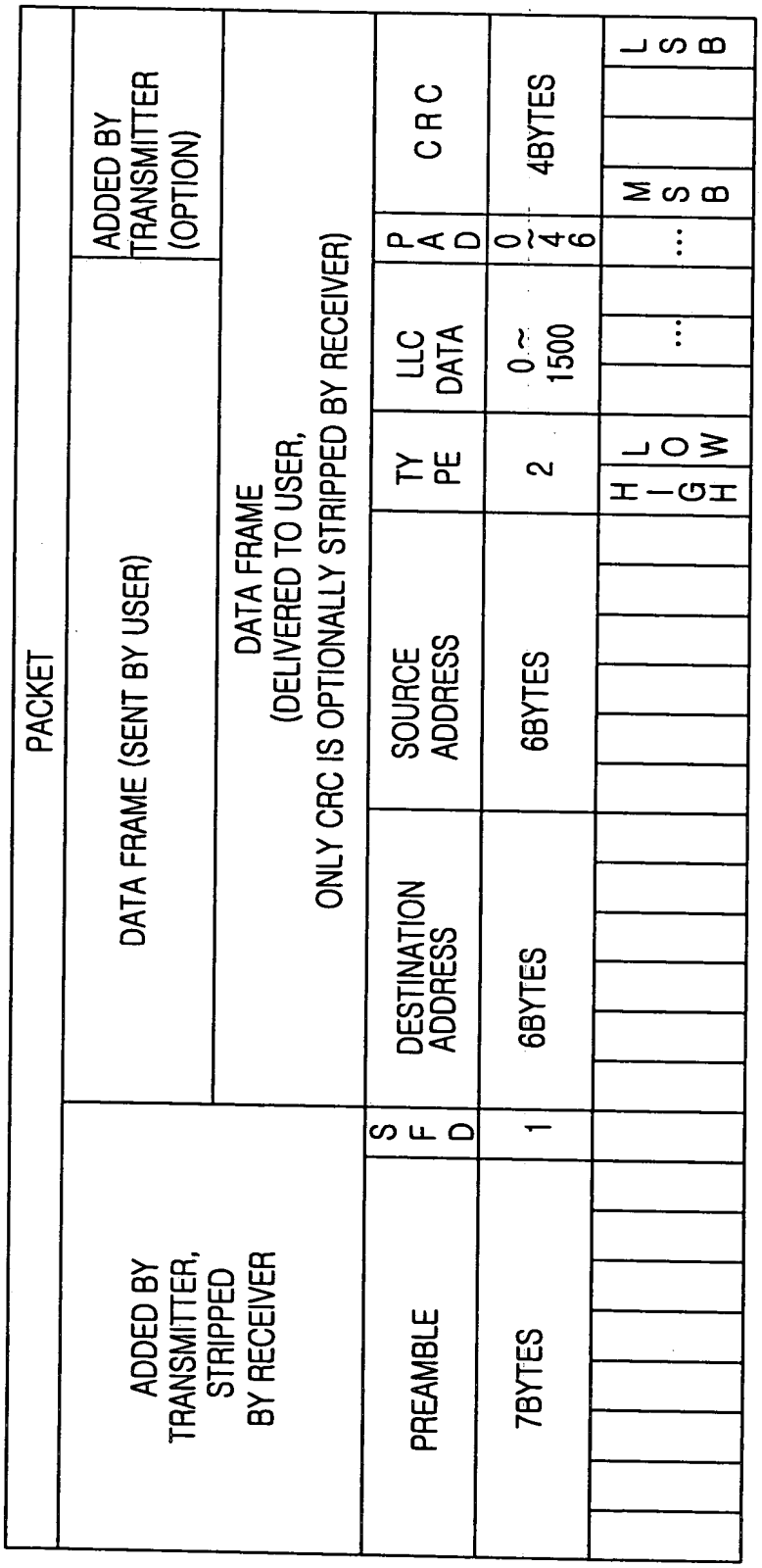
PACKET
ADDED BY TRANSMITTER, STRIPPED BY RECEIVER
DATA FRAME (SENT BY USER)
ADDED BY TRANSMITTER (OPTION)
DATA FRAME
(DELIVERED TO USER,
ONLY CRC IS OPTIONALLY STRIPPED BY RECEIVER)
PREAMBLE
SFD
DESTINATION ADDRESS
SOURCE ADDRESS
TYPE
LLC DATA
PAD
CRC
7BYTES
1
6BYTES
6BYTES
2
0~1500
0~46
4BYTES
HIGH
LOW
MSB
LSB

FIG.2

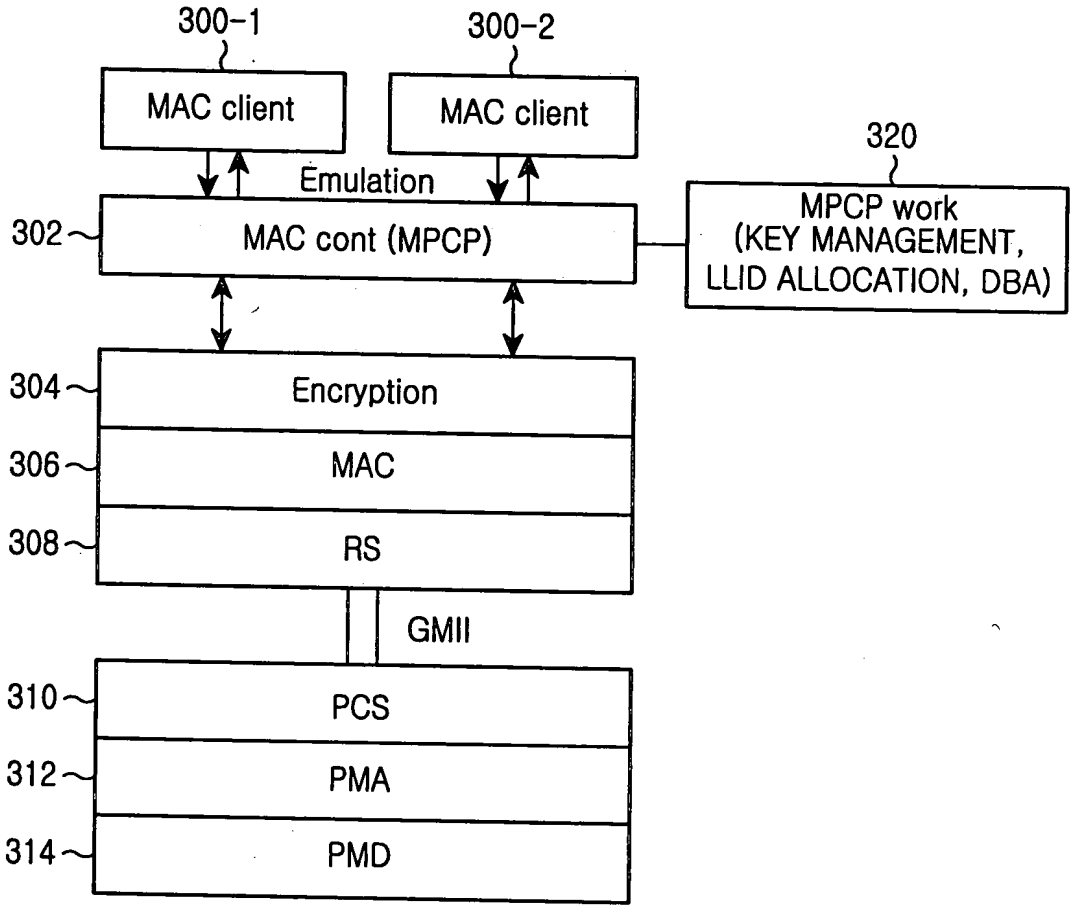
300-1
300-2
MAC client
MAC client
320
Emulation
302
MAC cont (MPCP)
MPCP work
(KEY MANAGEMENT,
LLID ALLOCATION, DBA)
304
Encryption
306
MAC
308
RS
GMII
310
PCS
312
PMA
314
PMD

FIG.3

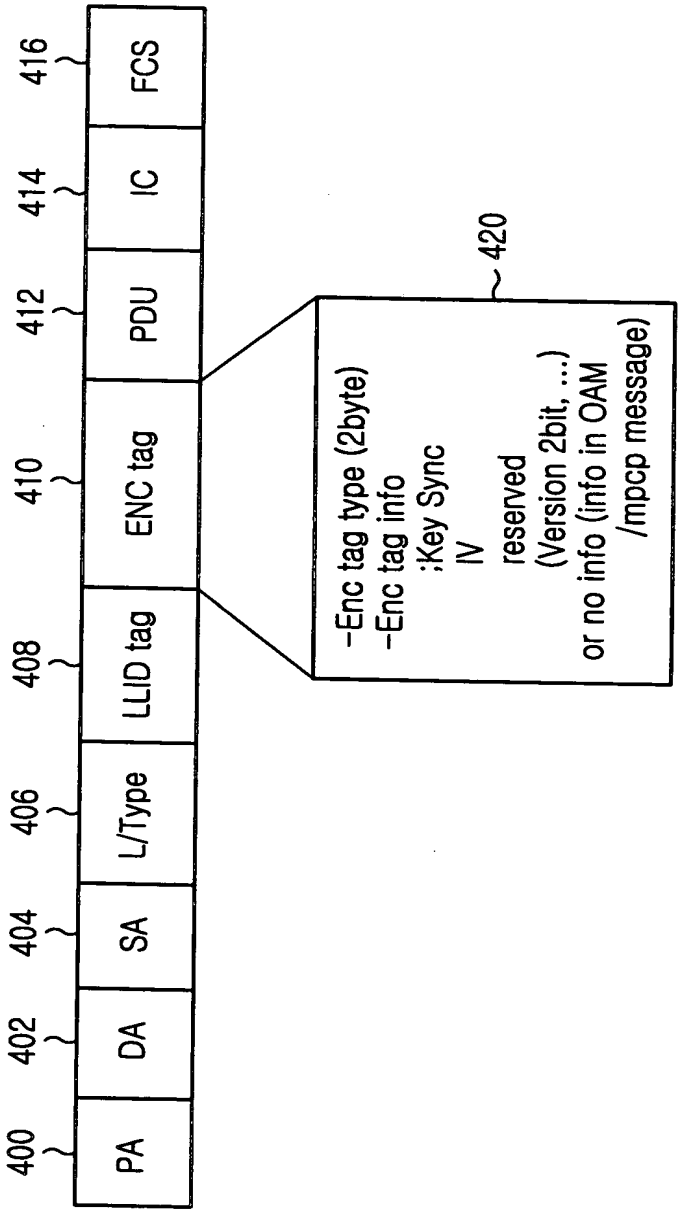
400
PA
402
DA
404
SA
406
L/Type
408
LLID tag
410
ENC tag
412
PDU
414
IC
416
FCS
420
-Enc tag type (2byte)
-Enc tag info
;Key Sync
IV
reserved
(Version 2bit, ...)
or no info (info in OAM
/mpcp message)

FIG.4

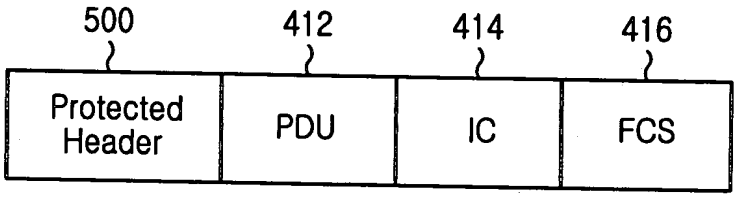

FIG.5